

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV
COLLEGE STATION RD.
ATHENS, GA. 30613

*****MEMORANDUM*****

DATE: 10/21/92

SUBJECT: Results of Metals Analysis;
92-0835 ENTERPRISE RECOVERY
BYHALIA MS

Michael Wasko
FROM: Mike Wasko, Chemist

TO: BILL BOKEY

THRU: William H. McDaniel *W.H.M.*
Chief, Inorganic Chemistry Section

Attached are the results of analysis of samples collected as part of
the subject project.

If you have any questions please contact me.

ATTACHMENT

10300729



SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/20/92

METALS DATA REPORT
*** PROJECT NO. 92-0835 SAMPLE NO. 71794 *
*** SOURCE: ENTERPRISE RECOVERY *
*** STATION ID: ERS-1 *

UG/L ANALYTICAL RESULTS

2.5U	SILVER	- 2.3 CALCIUM
7.5U	ARSENIC	- 0.85 MAGNESIUM
NA	BORON	- 0.019 IRON
- 20	BARIUM	- 7.1 SODIUM
- 1.2U	BERYLLIUM	- 0.75 POTASSIUM
2.5U	CADMIUM	
1.2U	COBALT	
2.5U	CHROMIUM	
5.5	COPPER	
2.5U	MOLYBDENUM	
5.0U	NICKEL	
1.0U	LEAD	
1.2U	ANTIMONY	
1.0U	SELENIUM	
6.2U	TIN	
- 15	STRONTIUM	
1.2U	TELLURIUM	
2.5U	TITANIUM	
1.2U	THALLIUM	
2.5U	VANADIUM	
2.5U	YTTRIUM	
- .34	ZINC	
NA	ZIRCONIUM	
1.0U	MERCURY	
.50U	ALUMINUM	
- 5.8	MANGANESE	

PROG ELEM: NSF COLLECTED BY: V YOUNG

CITY: BYHALIA ST: MS

COLLECTION START: 09/09/92 STOP: 0945

*** ANALYTICAL RESULTS MG/L

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *N-INTERFERENCES *L-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/20/92

METALS DATA REPORT * * * * *
* * * * * PROJECT NO. 92-0835 SAMPLE NO. 71795 * * * * *
* * SOURCE: ENTERPRISE RECOVERY * * * * * PROG ELEM: NSF COLLECTED BY: V YOUNG * * * * *
* * STATION ID: ERS-2 CITY: BYHALIA ST: MS STOP: 0915 00/00/00 * * * * *
* * * * * ANALYTICAL RESULTS * * * * * MG/L * * * * *
UG/L

2.5U	SILVER	-	CALCIUM
7.5U	ARSENIC	-	2.4
NA	BORON	0.012U	MAGNESIUM
-	34	-	IRON
-	1.2U	14	SODIUM
-	BERYLLIUM	-	POTASSIUM
-	1.2U	0.65	
-	CADMIUM		
2.5U	COBALT		
2.5U	CHROMIUM		
-	COPPER		
6.2	MOLYBDENUM		
-	NICKEL		
5.0U	LEAD		
1.0U	ANTIMONY		
1.2U	SELENIUM		
6.2U	TIN		
-	STRONTIUM		
1.2U	STELLURIUM		
-	TITANIUM		
1.2U	THALLIUM		
2.5U	VANADIUM		
2.5U	YTTRIUM		
-	ZINC		
-	NA		
-	ZIRCONIUM		
1.0U	MERCURY		
1.50U	ALUMINUM		
-	MANGANESE		

REMARKS

FOOTNOTES
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REMARKS

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/20/92

METALS DATA REPORT
*** PROJECT NO. 92-0835 SAMPLE NO. 71796
*** SOURCE: ENTERPRISE RECOVERY
*** STATION ID: ERS-3

*** ANALYTICAL RESULTS

UG/L		ANALYTICAL RESULTS	MG/L
2.5U	SILVER	-	5.2 CALCIUM
7.5U	ARSENIC	-	- 1.9 MAGNESIUM
NA	BORON	-	- 0.040 IRON
- 26	BARIUM	-	- 0.11 SODIUM
1.2U	BERYLLIUM	-	- 0.57 POTASSIUM
2.5U	CADMIUM		
2.5U	COBALT		
CHROMIUM			
- 3.3	COPPER		
2.5U	MOLYBDENUM		
5.0U	NICKEL		
1.0U	LEAD		
1.2U	ANTIMONY		
1.0U	SELENIUM		
6.2U	TIN		
- 18	STRONTIUM		
1.2U	TELLURIUM		
2.5U	TITANIUM		
1.2U	THALLIUM		
2.5U	VANADIUM		
2.5U	YTTRIUM		
- 11	ZINC		
- NA	ZIRCONIUM		
1.0U	MERCURY		
5.0U	ALUMINUM		
- 4.5	MANGANESE		

REMARKS

REMARKS

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**SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.**

10/20/92
METALS DATA REPORT
PROJECT NO. 92-0835 SAMPLE NO. 71797 PROG ELEM: NSF COLLECTED BY: V YOUNG
SOURCE: ENTERPRISE RECOVERY CITY: BYHALIA ST: MS **
STATION ID: ERS-4 COLLECTION START: 09/09/92 1030 STOP: 00/00/00 **
** ANALYTICAL RESULTS MG/L ***

CALCIUM	2.7
MAGNESIUM	2.95
IRON	0.012U
SODIUM	8.0
POTASSIUM	0.64
SILVER	2.5U
ARSENIC	7.5U
BORON	NA
BARIUM	15
BERYLLIUM	1.2U
CADMIUM	1.2U
COBALT	2.5U
CHROMIUM	2.5U
COPPER	2.5U
MOLYBDENUM	2.5U
NICKEL	5.0U
LEAD	1.0U
ANTIMONY	1.2U
SELENIUM	1.0U
TIN	6.2U
STRONTIUM	1.2U
STELLURIUM	1.2U
TITANIUM	2.5U
THALLIUM	1.2U
VANADIUM	2.5U
YTTRIUM	2.5U
ZINC	1.14U
ZIRCONIUM	NA
MERCURY	1.0U
ALUMINUM	5.0U
MANGANESE	3.6

REMARKS * *

* * * REMARKS * * *

FOOTNOTES
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**I-MATERIAL WAS ANALYZED FOR BUT NOT DEFECTED THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/20/92

METALS DATA REPORT

PROJECT NO. 92-0835 SAMPLE NO. 71798
SOURCE: ENTERPRISE RECOVERY
STATION ID: ERS-5

UG/L	ANALYTICAL RESULTS
2.5U	SILVER
7.5U	ARSENIC
-	BARON
1.3	BARIUM
1.2U	BERYLLIUM
1.2U	CADMIUM
2.5U	COBALT
2.5U	CHROMIUM
-	COPPER
5.5	MOLYBDENUM
2.5U	NICKEL
1.0U	LEAD
1.2U	ANTIMONY
1.0U	SELENIUM
6.2U	TIN
-	STRONTIUM
1.2U	TELLURIUM
2.5U	TITANIUM
1.2U	THALLIUM
2.5U	VANADIUM
2.5U	YTTRIUM
-	ZINC
3.2	ZIRCONIUM
NA	MERCURY
1.0U	ALUMINIUM
5.0U	MANGANESE
2.5U	

ANALYTICAL RESULTS

MG/L	ANALYTICAL RESULTS
-	CALCIUM
-	MAGNESIUM
0.012U	IRON
0.14	SODIUM
-	POTASSIUM
0.56	

REMARKS

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/20/92

METALS DATA REPORT
*** PROJECT NO. 92-0835 SAMPLE NO. 71799
** SOURCE: ENTERPRISE RECOVERY
** STATION ID: ERS-6

	ANALYTICAL RESULTS	UG/L
2.5U	SILVER	2.5U
7.5U	ARSENIC	7.5U
-	NA	BARIUM
67	BORON	1.2U
	BERYLLIUM	CADMIUM
1.2U	COBALT	2.5U
2.5U	CHROMIUM	2.5U
2.5U	COPPER	2.5U
2.5U	MOLYBDENUM	NICKEL
5.0U	LEAD	10U
1.2U	ANTIMONY	1.2U
10U	SELENIUM	TIN
6.2U		46 STRONTIUM
-		12U TELLURIUM
2.5U		2.5U TITANIUM
1.2U		1.2U THALLIUM
2.5U		2.5U VANADIUM
2.5U		2.5U YTTRIUM
-	ZINC	5.4 NA
	ZIRCONIUM	1.0U MERCURY
		5.0U ALUMINIUM
-	MANGANESE	8.1

ANALYTICAL RESULTS

	ANALYTICAL RESULTS	MG/L
2.5U	SILVER	16
7.5U	ARSENIC	6.0
-	NA	0.19
67	BORON	28
	BERYLLIUM	1.1
1.2U	CADMIUM	POTASSIUM
2.5U	COBALT	
2.5U	CHROMIUM	
2.5U	COPPER	
2.5U	MOLYBDENUM	
5.0U	NICKEL	
10U	LEAD	
1.2U	ANTIMONY	
10U	SELENIUM	
6.2U	TIN	
-	STRONTIUM	
12U	TELLURIUM	
2.5U	TITANIUM	
1.2U	THALLIUM	
2.5U	VANADIUM	
2.5U	YTTRIUM	
-	ZINC	
	ZIRCONIUM	
	MERCURY	
	ALUMINIUM	
-	MANGANESE	

REMARKS

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**SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.**

10/20/92
METALS DATA REPORT
PROJECT NO. 92-0835 SAMPLE NO. 71801 SOURCE: ENTERPRISE RECOVERY STATION ID: ERS-8
SAMPLE TYPE: DRKWA PROG. ELEM: NSF CITY: BYHALIA COLLECTION START: 09/09/92 1045 STOP: 00/00/00
COLLECTED BY: V. YOUNG ST: MS
MC/L ANALYTICAL RESULTS

SILVER	2.5U	CALCIUM	8.5
ARSENIC	7.5U	MAGNESIUM	-
BORON	NA	IRON	3.2
BARIUM	37	SODIUM	0.012U
BERYLLIUM	1.2U	POTASSIUM	0.25
CADMIUM	1.1U		-
COBALT	2.5U		-
CHROMIUM	2.5U		-
COPPER	2.5U		-
MOLYBDENUM	2.5U		-
NICKEL	5.0U		-
LEAD	1.0U		-
ANTIMONY	1.2U		-
SELENIUM	1.0U		-
TIN	6.2U	STRONTIUM	-
	-	TELLURIUM	2.8U
	-	TITANIUM	1.2U
	-	THALLIUM	2.5U
	-	VANADIUM	2.5U
	-	YTTRIUM	2.5U
	-	ZINC	1.14
	-	ZIRCONIUM	NA
	-	MERCURY	1.0U
	-	ALUMINIUM	5.0U
	-	MANGANESE	2.9

DEMAND * *

DEMOCRAT

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/20/92

METALS DATA REPORT

** PROJECT NO. 92-0835 SAMPLE NO. 71802
** SOURCE: ENTERPRISE RECOVERY
** STATION ID: ERS-9

UG/L ANALYTICAL RESULTS

2.5U	SILVER
7.5U	ARSENIC
-	BORON
2.1	BARIUM
1.2U	BERYLLIUM
2.5U	COBALT
2.5U	CHROMIUM
3.4	COPPER
2.5U	MOLYBDENUM
5.0U	NICKEL
10U	LEAD
1.2U	ANTIMONY
10U	SELENIUM
6.2U	TIN
-	STRONTIUM
12U	STELLURIUM
2.5U	TITANIUM
1.2U	THALLIUM
2.5U	VANADIUM
2.5U	YTTRIUM
-	ZINC
60	ZIRCONIUM
NA	MERCURY
1.0U	ALUMINUM
5.0U	MANGANESE
-	

UG/L	ANALYTICAL RESULTS
2.5U	3.7 CALCIUM
7.5U	1.3 MAGNESIUM
-	0.012U IRON
2.1	8.8 SODIUM
1.2U	1.3 POTASSIUM

REMARKS

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REMARKS

**SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.**

10/20/92
METALS DATA REPORT
PROJECT NO. 92-0835 SAMPLE NO. 71803 PROG ELEM: NSF COLLECTED BY: V YOUNG
SOURCE: ENTERPRISE RECOVERY CITY: BYHALIA ST: MS **
STATION ID: ERS-10 COLLECTION START: 09/09/92 1215 STOP: 00/00/00
EPAs REGION IV ESD, ATHENS, GA.

SILVER	2.5U	CALCIUM	- 17
ARSENIC	7.5U	MAGNESIUM	- 7.0
BORON	NA	IRON	- 0.059
BARIUM	58	SODIUM	- 8.1
BERYLLIUM	- 1.2U	POTASSIUM	- 0.73
CADMIUM	1.2U		
COBALT	2.5U		
CHROMIUM	2.5U		
COPPER	1.10		
MOLYBDENUM	2.5U		
NICKEL	5.0U		
LEAD	10U		
ANTIMONY	1.2U		
SELENIUM	1.10U		
TIN	6.2U		
STRONTIUM	- 55		
TELLURIUM	- 12U		
TITANIUM	2.5U		
THALLIUM	1.2U		
VANADIUM	2.5U		
YTTRIUM	2.5U		
ZINC	- 4.9		
ZIRCONIUM	- NA		
MERCURY	- 1.0U		
ALUMINIUM	1.50U		
MANGANESE	7.5		

* * * REMARKS * * *

REMARKS * * *

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**SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.**

PURGEABLE ORGANICS DATA REPORT
 PROJECT NO. 92-0835 SAMPLE NO. 71798 SAMPLE TYPE: DRKWA
 SOURCE: ENTERPRISE RECOVERY STATION ID: ERS-5 GRAN
 EPA-REGION IV ESD, ATHENS, GA.
 PROG ELEM: NSF COLLECTED BY: V YOUNG
 CITY: BYHALIA ST: MS
 COLLECTION START: 09/09/92 STOP: 00/00/00
 10/01/92

ANALYTICAL RESULTS		ANALYTICAL RESULTS	
UG/L	UG/L	UG/L	UG/L
CHLOROMETHANE	5.0U	CIS-1, 3-DICHLOROPROPENE	5.0U
VINYL CHLORIDE	5.0U	MÉTHYL ISOBUTYL KETONE	5.0U
BROMOMETHANE	5.0U	TOLUENE	5.0U
CHLOROETHANE	5.0U	TRANS-1, 3-DICHLOROPROPENE	5.0U
TRICHLOROFLUOROMETHANE	5.0U	1,1,2-TRICHLOROETHANE	5.0U
1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	5.0U	TÉTRACHLOROETHENE (TETRACHLOROETHYLENE)	5.0U
ACETONE	5.0U	1,3-DICHLOROPROPANE	5.0U
CARBON DISULFIDE	12U	MÉTHYL BUTYL KETONE	12U
METHYLENE CHLORIDE	5.0U	DIBROMOCHLOROMETHANE	5.0U
TRANS-1, 2-DICHLOROETHENE	5.0U	CHLOROBENZENE	5.0U
1,1-DICHLOROETHANE	5.0U	1,1,1,2-TETRACHLOROETHANE	5.0U
CIS-1, 2-DICHLOROETHENE	5.0U	ÉTHYL BENZENE	5.0U
2,2-DICHLOROPROPANE	5.0U	(M- AND/OR P-)XYLENE	5.0U
MÉTHYL ÉTHYL KETONE	5.0U	O-XYLYENE	5.0U
BROMOCHLOROMETHANE	5.0U	STYRENE	5.0U
CHLOROFORM	5.0U	BROMOFORM	5.0U
1,1,1-TRICHLOROETHANE	5.0U	BROMOBENZENE	5.0U
1,1-DICHLOROPROPENE	5.0U	1,1,2,2-TETRACHLOROETHANE	5.0U
CARBON TETRACHLORIDE	5.0U	1,2,3-TRICHLOROPROPANE	5.0U
BÉNZEINE	5.0U	O-CHLOROTOLUENE	5.0U
TRICHLOROETHENE (TRICHLOROETHYLENE)	5.0U	P-CHLOROTOLUENE	5.0U
1,2-DICHLOROPROPANE	5.0U	1,3-DICHLOROBENZENE	5.0U
DIBROMOMETHANE	5.0U	1,4-DICHLOROBENZENE	5.0U
BROMOCHLOROPROPANE	5.0U	1,2-DICHLOROBENZENE	5.0U

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